

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,189,530 B2  
APPLICATION NO. : 10/015869  
DATED : March 13, 2007  
INVENTOR(S) : David Botstein et al.

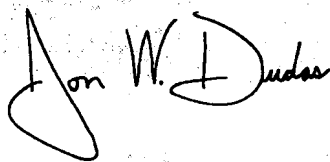
Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, Item (63) "Related U.S. Application Data":  
Delete the related application data and replace as follows:  
-- Continuation of application No. 09/946,374, filed on Sep. 4, 2001, now abandoned,  
which is a continuation of application No. PCT/US00/04342, filed on Feb. 18, 2000,  
which is a continuation-in-part of application No. 09/403,297, filed as application No.  
PCT/US99/20111 on Sep. 1, 1999, now abandoned. --

Signed and Sealed this

Eighth Day of May, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*